

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1–29. (Canceled)

30. (Previously Presented) A method, comprising:  
depositing a fiducial into a target region of a patient;  
detecting the fiducial using electromagnetic radiation to locate the target region of the patient; and

performing stereotaxic radiosurgery on the target region of the patient according to the detected fiducial and the location of the target region.

31. (Previously Presented) The method of claim 30, further comprising tracking the target region during the stereotaxic radiosurgery.

32. (Previously Presented) The method of claim 30, further comprising applying radiation treatment to the target region.

33. (Previously Presented) The method of claim 30, further comprising anchoring the fiducial in the target region to prevent migration of the fiducial relative to the target region.

34. (Previously Presented) The method of claim 30, wherein detecting the fiducial comprises viewing the fiducial using an x-ray imager, wherein the fiducial comprises a radiopaque material.

35. (Previously Presented) The method of claim 30, wherein detecting the fiducial comprises viewing the fiducial using an ultrasonic imager, wherein the fiducial comprises an ultrasonic opaque material.

36. (Previously Presented) A fiducial apparatus, comprising:  
a body portion having a housing, the body portion comprising a material visible  
using electromagnetic radiation; and  
an anchor member coupled to the body portion, the anchor member having an  
unanchored position and an anchored position, the anchor member drawn into the  
housing in the unanchored position and withdrawn from the housing in the anchored  
position.

37. (Previously Presented) The apparatus of claim 36, further comprising an  
elastic member coupled to the anchor member and the body portion, the elastic member  
to urge the anchor member from the unanchored position to the anchored position.

38. (Previously Presented) The apparatus of claim 37, wherein the elastic  
member comprises a spring coupled between the anchor member and the body portion to  
urge the anchor member to withdraw from the housing.

39. (Previously Presented) The apparatus of claim 37, wherein the anchor  
member comprises a pyramidal spike to embed into a target region.

40. (Previously Presented) The apparatus of claim 37, wherein the anchor  
member comprises an elongated rectangular shaped member.

41. (Previously Presented) The apparatus of claim 40, wherein the elongated  
rectangular shaped member comprises a first end and a second end, the elastic member  
coupled to the elongated rectangular shaped member at the first end to urge the second  
end away from the body portion.

42. (Previously Presented) The apparatus of claim 36, wherein the body  
portion comprises a memory metal member that bends in response to a presence or an  
absence of an appropriate signal.

43. (Previously Presented) The apparatus of claim 42, wherein the appropriate signal comprises an electromagnetic signal or an ambient temperature.

44. (Previously Presented) The apparatus of claim 36, wherein the material comprises an ultrasonic opaque material visible using an ultrasonic imager.

45. (Previously Presented) The apparatus of claim 36, wherein the material comprises a radiopaque material visible using an x-ray imager.

46. (Previously Presented) A method, comprising:  
inserting an insertion needle into a tissue target region of a patient, the insertion needle containing a fiducial in an unanchored position, the fiducial comprising a body portion and an anchor member coupled to the body portion, the body portion having a housing, the anchor member drawn into the housing in the unanchored position;  
displacing a portion of the tissue target region; and  
depositing the fiducial into the tissue target region, the anchor member withdrawing from the housing and embedding in the tissue target region in response to the fiducial exiting the insertion needle.

47. (Previously Presented) The method of claim 46, further comprising moving the anchor member from the unanchored position to an anchored position withdrawn from the housing.

48. (Previously Presented) The method of claim 46, further comprising using an ultrasonic imager to view the deposited fiducial.

49. (Previously Presented) The method of claim 46, further comprising using an x-ray imager to view the deposited fiducial.

50. (Previously Presented) The method of claim 46, further comprising applying an electromagnetic signal to the fiducial to maintain the fiducial in the unanchored position during insertion into the tissue target region, wherein the fiducial comprises a memory metal member that bends in response to a presence or an absence of the electromagnetic signal.

51. (Previously Presented) The method of claim 46, wherein the tissue target region comprises a tumor.

52. (Previously Presented) A fiducial apparatus, comprising:  
means for coupling an anchor member to a body portion, the body portion having a housing, the anchor member drawn into the housing in an unanchored position;  
means for displacing a portion of a tissue target region; and  
means for embedding the anchor member in the tissue target region.

53. (Previously Presented) The apparatus of claim 52, means for urging the anchor member from the unanchored position to an anchored position.

54. (Previously Presented) The apparatus of claim 52, further comprising means for viewing the fiducial within the tissue target region using an ultrasonic imager.

55. (Previously Presented) The apparatus of claim 52, further comprising means for viewing the fiducial within the tissue target region using an x-ray imager.

56. (Previously Presented) The apparatus of claim 52, wherein the tissue target region comprises a tumor.

57. (Currently Amended) A fiducial apparatus, comprising:  
an elastic body portion having an unanchored position and an anchored position,  
the elastic body portion expandable to receive a material in an internal cavity in the anchored position, the material visible using electromagnetic radiation; and

~~a lumen coupled to the elastic body portion to provide a channel for the material to enter the internal cavity of the elastic body portion.~~

58. (Canceled)

59. (Previously Presented) The apparatus of claim 57, wherein the material comprises a radiopaque fluid or an ultrasonic opaque fluid.

60. (Previously Presented) The apparatus of claim 57, wherein the material comprises a radiopaque non-fluid substance or an ultrasonic opaque non-fluid substance.

61. (Previously Presented) A method, comprising:  
inserting a fiducial in an unanchored position into a target tissue region, the fiducial comprising an elastic body portion defining an internal cavity;  
displacing a portion of the tissue target region; and  
depositing a material into the internal cavity of the elastic body portion to expand and anchor the elastic body portion within the tissue target region, the material visible using electromagnetic radiation.

62. (Canceled)

63. (Previously Presented) The method of claim 61, wherein the tissue target region comprises a tumor.

64. (Previously Presented) The method of claim 61, further comprising using an ultrasonic imager to view the material within the deposited fiducial.

65. (Previously Presented) The method of claim 61, further comprising using an x-ray imager to view the material within the deposited fiducial.